

### Special Problem 5.6-2

DC bias this amplifier (i.e., find  $R_1$ ,  $R_D$ , and  $R_S$ ) so that:

- 1) the **small-signal output**  $v_o(t)$  shown below will be **undistorted**.
- 2) the DC drain current is **3 mA**.
- 3) the **source voltage** is as **large** as possible.

